

16138 U.S. PTO  
07/02/03

Atty. Dkt. No. 029573-0701

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Robert Boesel, et al.  
Title: MULTI-MODE METHOD AND APPARATUS FOR PERFORMING  
DIGITAL MODULATION AND DEMODULATION  
Appl. No.: Unknown  
Filing Date: Submitted Herewith  
Examiner: Unknown  
Art Unit: Unknown

16235 U.S. PTO  
10/613476  
07/02/03

**UTILITY PATENT APPLICATION**  
**TRANSMITTAL**

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is the nonprovisional utility patent application of:

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[ X ] Applicant claims small entity status under 37 CFR 1.27.

Enclosed are:

- ☒ [ X ] Specification, Claim(s), and Abstract (42 pages).
- ☒ [ X ] Formal drawings (29 sheets, Figures 1, 2, 3 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36).
- ☒ [ X ] Declaration and Power of Attorney (3 pages).
- ☒ [ X ] Application Data Sheet (37 CFR 1.76).
- ☐ [ ] Claim for Convention Priority.

The filing fee is calculated below:

	Claims as Filed		Included in Basic Fee		Extra Claims		Rate		Fee Totals
Basic Fee							\$750.00		\$750.00
Total Claims:	20	-	20	=	0	x	\$18.00	=	\$0.00
Independents:	3	-	3	=	0	x	\$84.00	=	\$0.00
If any Multiple Dependent Claim(s) present:						+	\$280.00	=	\$0.00
							SUBTOTAL:	=	\$750.00
<input checked="" type="checkbox"/> [ X ]							Small Entity Fees Apply (subtract ½ of above):	=	\$375.00
							TOTAL FILING FEE:	=	\$375.00

- ☐ [ ] A check in the amount of \$375.00 to cover the filing fee is enclosed.
- ☐ [ ] The required filing fees are not enclosed but will be submitted in response to the Notice to File Missing Parts of Application.
- ☒ [ X ] The Commissioner is hereby authorized to charge the \$375.00 fees required regarding this application under 37 C.F.R. §§ 1.16-1.17, to Deposit Account No. 50-2350. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-2350.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date

July 2, 2003

FOLEY & LARDNER

Customer Number: 23524



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By

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Robert W. Boesel, et al.

Title: MULTI-MODE METHOD AND APPARATUS FOR PERFORMING DIGITAL  
MODULATION AND DEMODULATION

Filing Date: July 2, 2003

**MAIL STOP PATENT APPLICATION**

Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

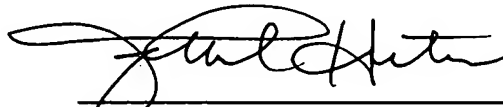
"Express Mail" Mailing Label No.: EU 984952317 US  
Date of Deposit: July 2, 2003

I hereby certify that these attached documents

- \* Utility Patent Application Transmittal (3 pages) (duplicate)
- \* Utility Patent Application (71 pages), Specification (38 pages),  
Claims (3 pages), Drawings (29 pages), Abstract (1 page)
- \* Executed Declaration and Power of Attorney (4 pages)
- \* Application Data Sheet (3 pages)
- \* Return postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to Mail Stop PATENT APPLICATION, Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Enclosed for filing please find the above-referenced provisional patent application. Please indicate receipt of this provisional patent application by returning the attached postcard with the official Patent and Trademark Office receipt stamped thereon.



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